



IEI Technology Corp.



MODEL:
RPC-6106/RPC-6108

6.5"/8.4" TFT LCD 4U 7-slot Half-size Workstation

User Manual

Rev.1.0 March 2007



Revision

MODEL	RPC-6106/6108 4U 7-slot LCD Workstation	
Revision Number	Description	Date of Issue
1.0	Initial release	March 2007

Copyright

COPYRIGHT NOTICE

The information in this document is subject to change without prior notice in order to improve reliability, design and function and does not represent a commitment on the part of the manufacturer.

In no event will the manufacturer be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use the product or documentation, even if advised of the possibility of such damages.

This document contains proprietary information protected by copyright. All rights are reserved. No part of this manual may be reproduced by any mechanical, electronic, or other means in any form without prior written permission of the manufacturer.

TRADEMARKS

IBM PC is a registered trademark of International Business Machines Corporation. INTEL is a registered trademark of INTEL Corporation. Other product names mentioned herein are used for identification purposes only and may be trademarks and/or registered trademarks of their respective owners.

Packing List

**NOTE:**

If any of the components listed in the checklist below are missing, please do not proceed with the installation. Contact the IEI reseller or vendor you purchased the RPC-6106/6108 LCD Workstation from or contact an IEI sales representative directly. To contact an IEI sales representative, please send an email to sales@iei.com.tw.

The items listed below should all be included in the RPC-6106/6108 Rackmount LCD Workstation package.

- 1 x RPC-6106/6108 Rackmount LCD Workstation
- 2 x Handles
- 1 x Power cable
- 1 x Screw kit
- 1 x VGA cable
- 1 x RS-232 cable

For Touch Panel (T-R) Models only:

- 1 x TouchKit Driver CD
- 1 x Touch Pen

Images of the above items are shown in **Section 4.2.3**.

Table of Contents

1	INTRODUCTION.....	1
1.1	RPC-6106/6108 OVERVIEW	2
1.2	RPC-6106/6108 FEATURES	2
1.3	MODEL VARIATIONS.....	2
1.4	CERTIFICATION.....	3
2	MECHANICAL OVERVIEW	5
2.1	EXTERNAL OVERVIEW	6
2.1.1	<i>Front Panel</i>	6
2.1.2	<i>Rear Panel</i>	7
2.1.3	<i>Side Panel</i>	7
2.1.4	<i>Internal overview</i>	8
2.2	PHYSICAL DIMENSIONS.....	8
2.2.1	<i>General Physical Dimensions</i>	8
2.2.2	<i>RPC-6106 Physical Dimensions</i>	9
2.2.3	<i>RPC-6108 Physical Dimensions</i>	10
3	DETAILED SPECIFICATIONS	11
3.1	RPC-6106/6108 SPECIFICATIONS	12
3.2	LCD SPECIFICATIONS	13
3.3	ACE-4525AP PSU SPECIFICATIONS.....	13
3.4	RECOMMENDED IEI BACKPLANES, MOTHERBOARDS AND PSUs.....	14
4	INSTALLATION	15
4.1	INSTALLATION CONSIDERATIONS	16
4.1.1	<i>Installation Precautions</i>	16
4.1.2	<i>Installation Prerequisites</i>	16
4.2	UNPACKING.....	17
4.2.1	<i>Packaging</i>	17
4.2.2	<i>Unpacking Procedure</i>	17
4.2.3	<i>Packing List</i>	18

4.3 PRE-INSTALLATION PREPARATION	20
4.3.1 System Planning.....	20
4.3.2 Tools	21
4.4 INSTALLATION PROCEDURES	21
4.4.1 Preinstalled Components	21
4.4.2 User Installed Components.....	21
4.4.3 Installation Steps.....	22
4.5 INSTALLING COMPONENTS INTO THE RPC-6106/6108.....	22
4.5.1 Remove the Top Cover	23
4.5.2 Remove the Drive Bracket	24
4.5.3 Install Drives.....	25
4.5.4 Reinstall the Drive Brackets	26
4.5.5 Install the Backplane.....	27
4.5.6 Install the CPU Card	28
4.5.7 Install the PCI/ISA Expansion Card	30
4.5.8 Connect the Cables	30
4.5.8.1 VGA Cable.....	31
4.5.8.2 PSU Cables	33
4.5.8.3 Disk Drive Ribbon Cables	33
4.5.8.4 RS-232 Cable (T-R Models Only)	33
4.5.9 Close the Top Cover	34
4.6 MOUNTING THE RPC-6106/6108 RACKMOUNT WORKSTATION.....	34
5 MAINTENANCE.....	39
5.1 MAINTENANCE OVERVIEW.....	40
5.2 CPU CARD REPLACEMENT	41
5.3 PCI/ISA EXPANSION CARD REPLACEMENT	41
5.4 BACKPLANE REPLACEMENT.....	42
5.5 PSU REPLACEMENT.....	43
5.6 SYSTEM FAN REPLACEMENT	44
5.7 DISK DRIVE REPLACEMENT	46
5.7.1 3.5" Disk Drive.....	46
6 ON SCREEN DISPLAY (OSD) CONTROLS.....	47
6.1 USER MODE OSD STRUCTURE	48

RPC-6106/6108 Rackmount LCD Workstation

6.1.1 OSD Buttons.....	48
6.1.2 OSD Menu Structure	49
6.2 USING THE OSD.....	50
6.2.1 Main Display Features.....	50
6.2.2 Color	51
6.2.3 Language.....	52
6.2.4 OSD Configurations.....	53
6.2.5 Signal	54
6.2.6 Backlight	55
7 SOFTWARE DRIVER	57
7.1 TOUCH SCREEN DRIVER.....	58
7.2 DRIVER INSTALLATION.....	59
7.3 TOUCH PANEL DRIVER CONFIGURATION	67
A CERTIFICATION	69
A.1 RoHS COMPLIANT.....	70
B RECOMMENDED IEI BACKPLANES AND PSUS	71
B.1 RPC-6106/6108 BACKPLANE OPTIONS.....	72
B.2 POWER SUPPLY OPTIONS	72
INDEX.....	73

List of Figures

Figure 2-1: RPC-6106/6108 Front Panel (External)	6
Figure 2-2: RPC-6106/6108 14-Slot Rear Panel	7
Figure 2-3: RPC-6106/6108 Side Panel.....	7
Figure 2-4: RPC-6106/6108 Internal Overview	8
Figure 2-5: RPC-6106 Physical Dimensions (millimeters)	9
Figure 2-6: RPC-6108 Physical Dimensions (millimeters)	10
Figure 4-1: Top Cover Retention Screws.....	23
Figure 4-2: Remove the Top Cover from the Chassis	24
Figure 4-3: Drive Bracket Retention Screws	25
Figure 4-4: Install Copper Pillars and White Spacers.....	27
Figure 4-5: Backplane Retention Screws	28
Figure 4-6: Slot Cover Retention Screw.....	29
Figure 4-7: Install the CPU Card	30
Figure 4-8: VGA Connector on the AD Board	31
Figure 4-9: VGA Connector on the Front Panel	32
Figure 4-10: VGA Connector on the Front Panel	32
Figure 4-11: RS-232 Cable on the AD Board	33
Figure 4-12: Rack Handle Bracket Assembly and Installation	35
Figure 4-13: Rack Slide Bracket Installation	36
Figure 4-14: Install Workstation into Rack	37
Figure 4-15: Secure Workstation to Rack.....	38
Figure 5-1: PSU External Retention Screws.....	43
Figure 5-2: PSU Internal Retention Screws	44
Figure 5-3: System Fan Retention Thumbscrews.....	45
Figure 5-4: System Fan Bracket Retention Screws	45
Figure 6-1: OSD Control Buttons.....	48
Figure 6-2: Main Display Features.....	50

Figure 6-3: Color Options	51
Figure 6-4: Language Menu	52
Figure 6-5: OSD Configurations Menu	53
Figure 6-6: Signal Menu	54
Figure 6-7: Backlight Menu	55
Figure 7-1: Driver CD Pop Up Screen.....	59
Figure 7-2: Install Shield Wizard Preparation.....	60
Figure 7-3: Welcome Screen	60
Figure 7-4: Install PS/2 Interface Driver	61
Figure 7-5: Install PS/2 Interface Driver	62
Figure 7-6: Touch Monitor/USB Touch Controller Confirmation	63
Figure 7-7: Controller Installation Directory.....	63
Figure 7-8: Controller Installation Directory.....	64
Figure 7-9: Program Icon Directory.....	65
Figure 7-10: Installing	66
Figure 7-11: Installation Complete	67



List of Tables

Table 1-1: RPC-6106/6108 Model Options	3
Table 2-1: General Physical Dimensions	8
Table 3-1: RPC-6106/6108 Specifications	12
Table 3-2: LCD Specifications.....	13
Table 3-3: ACE-4525AP PSU Specifications.....	14
Table 4-1: Packing List	19
Table 6-1: OSD Menus	50

Chapter

1

Introduction

1.1 RPC-6106/6108 Overview

The RPC-6106/6108 is a PC/AT compatible workstation designed for industrial applications. It has a rugged steel chassis specially designed to work under harsh environmental conditions while also being highly reliable. The RPC-6106/6108 features 7-slot passive backplanes and a full line of dependable AC/DC power supplies. The RPC-6106/6108 can withstand shock, vibration, dust and a wide range of temperatures in industrial environments. The RPC-6106/6108 also has two removable cooling-fans installed in the rear panel for optimum system cooling.

1.2 RPC-6106/6108 Features

Some of the standard features of the RPC-6106/6108 include:

- 6.5"/8.4" TFT LCD
- Analog VGA input
- Heavy duty steel front panel
- Compatible with ISA, PCISA, PICO series half size SBC
- OSD control pad on the front panel
- 2 x Internal 3.5" drive bays
- 2 x USB ports on the front panel
- RoHS compliant

1.3 Model Variations

Four IEI RPC-6106/6108 models are available. The models are listed in **Table 1-1**.

Model	LCD	Touch Screen	SBC Form Factor	Expansion Slots
RPC-6106B/ACE-4525AP	6.5"	No	Half-size CPU card	7
RPC-6106B/ACE-4525AP/T-R	6.5"	Yes	Half-size CPU card	7
RPC-6108B/ACE-4525AP	8.4"	No	Half-size CPU card	7

RPC-6106/6108 Rackmount LCD Workstation

Model	LCD	Touch Screen	SBC Form Factor	Expansion Slots
RPC-6108B/ACE-4525AP/T-R	8.4"	Yes	Half-size CPU card	7

Table 1-1: RPC-6106/6108 Model Options

1.4 Certification

All RPC-6106/6108 Rackmount LCD Workstations comply with the following international standards:

- RoHS

For a more detailed description of this standard, please refer to **Appendix A**.



THIS PAGE IS INTENTIONALLY LEFT BLANK

Chapter

2

Mechanical Overview

2.1 External Overview

The following sections describe the physical layout of the RPC-6106/6108 Rack-mount LCD Workstation.

2.1.1 Front Panel

The RPC-6106/6108 Rack-mount LCD Workstation has the following front panel items:

- Heavy duty steel front panel
- 6.5"/8.4" flat panel TFT LCD screen
- OSD controller
- 7 expansion slots
- 2 x USB ports
- Switches and LED indicators
 - 1 x Power switch
 - 1 x Reset button
 - 1 x Power LED
 - 1 x HDD LED

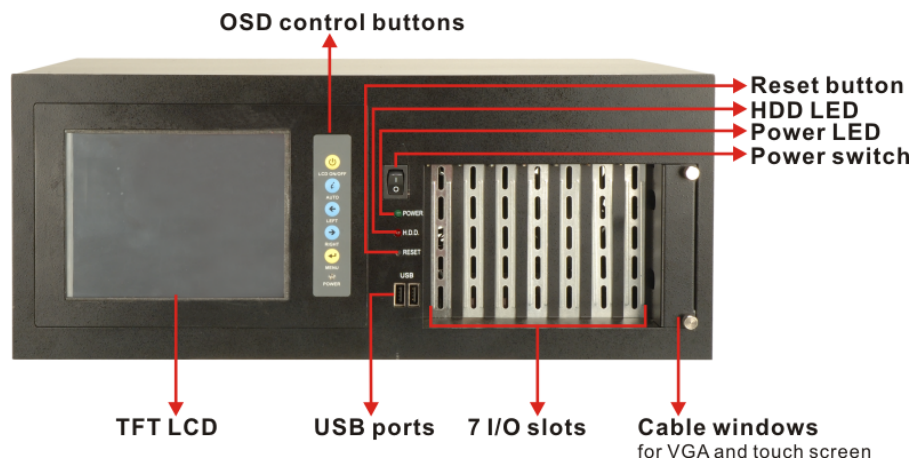


Figure 2-1: RPC-6106/6108 Front Panel (External)

RPC-6106/6108 Rackmount LCD Workstation

2.1.2 Rear Panel

The RPC-6106/6108 Rackmount LCD Workstation has the following rear panel items:

- Internal PSU
- 2 x 8cm cooling fans



Figure 2-2: RPC-6106/6108 14-Slot Rear Panel

2.1.3 Side Panel

The two side panels of the RPC-6106/6108 Rackmount LCD Workstation each has four screw holes for a handle bracket.

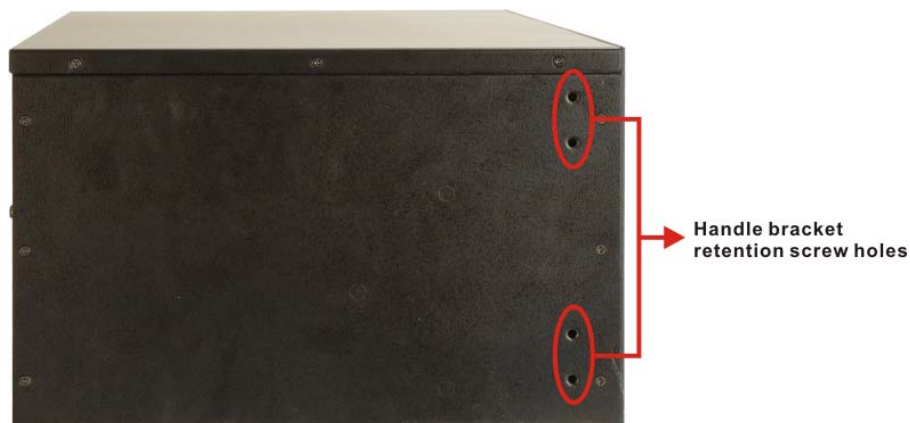


Figure 2-3: RPC-6106/6108 Side Panel

2.1.4 Internal overview

Figure 2-4 shows the internal components of the RPC-6106/6108 LCD workstation.

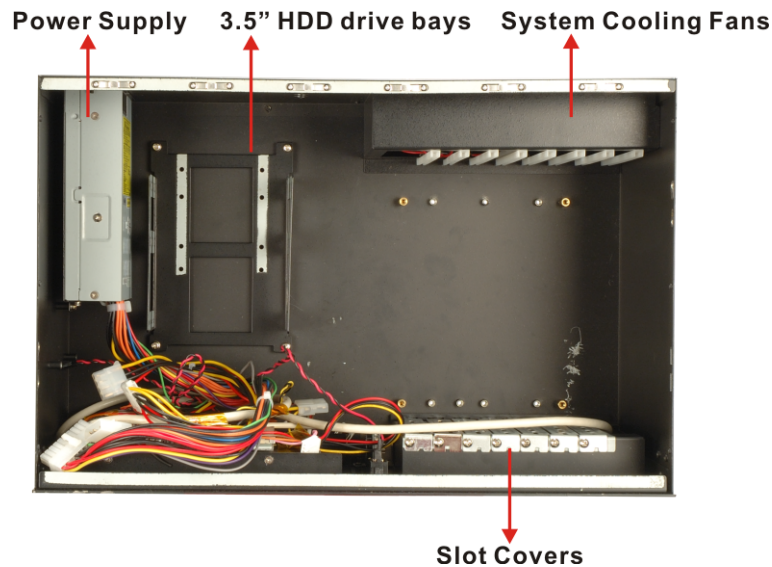


Figure 2-4: RPC-6106/6108 Internal Overview

2.2 Physical Dimensions

The following sections describe the physical dimensions of the RPC-6106 and RPC-6108.

2.2.1 General Physical Dimensions

General physical dimensions for the RPC-6106/6108 are shown in **Table 2-1**.

Models	Width (mm)	Height (mm)	Depth (mm)
RPC-6106	431	176	280
RPC-6108	431	176	280

Table 2-1: General Physical Dimensions

RPC-6106/6108 Rackmount LCD Workstation

2.2.2 RPC-6106 Physical Dimensions

The physical dimensions of the RPC-6106 are shown in **Figure 2-5**.

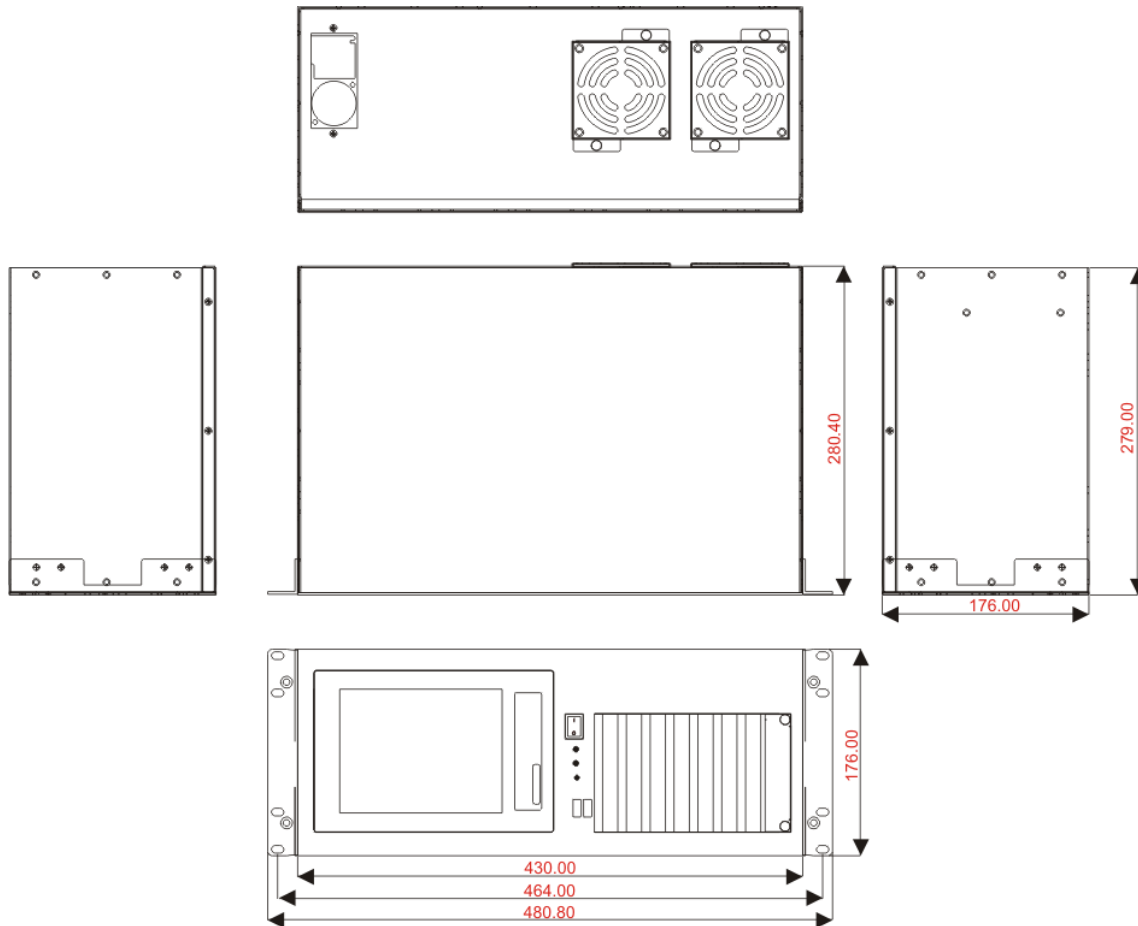


Figure 2-5: RPC-6106 Physical Dimensions (millimeters)

2.2.3 RPC-6108 Physical Dimensions

The physical dimensions of the RPC-6108 are shown in **Figure 2-5**.

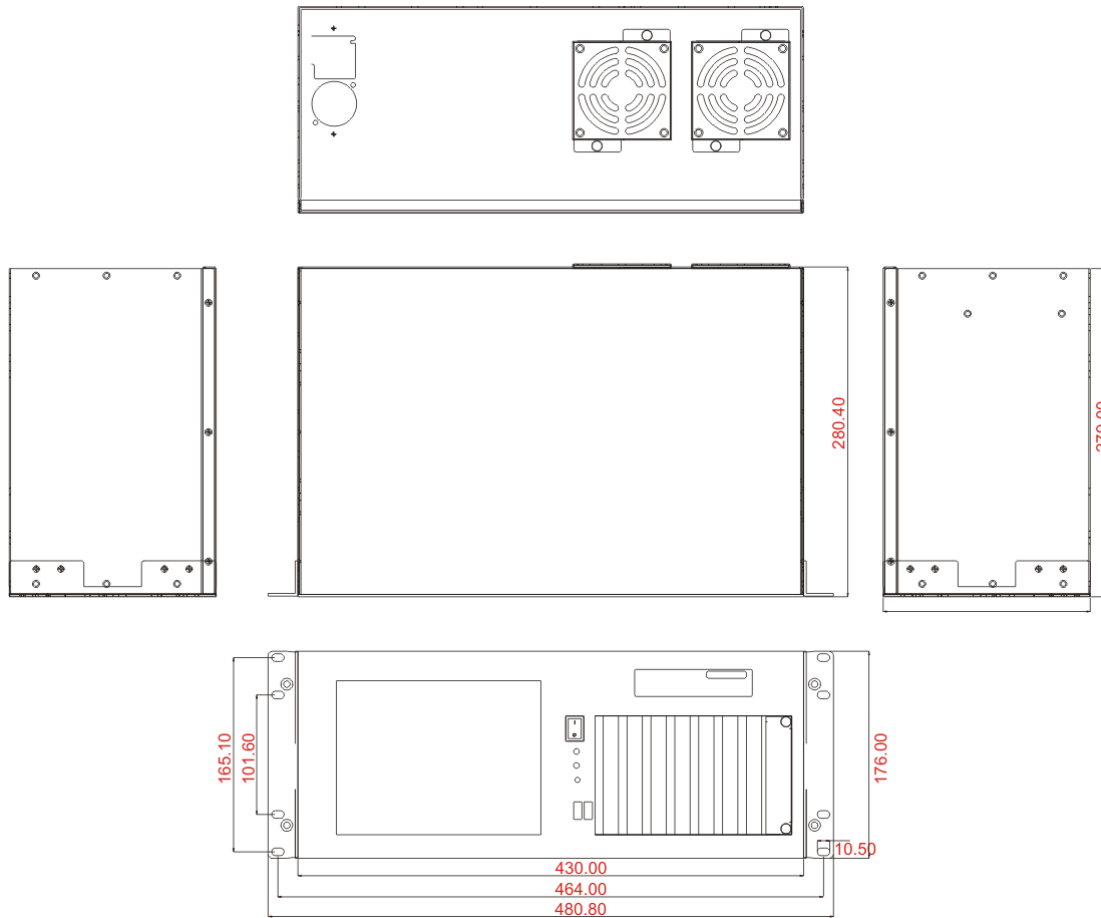


Figure 2-6: RPC-6108 Physical Dimensions (millimeters)

Chapter

3

Detailed Specifications

3.1 RPC-6106/6108 Specifications

Table 3-1 shows the RPC-6106/6108 specifications.

	RPC-6106	RPC-6108
LCD Type	6.5" TFT	8.4" TFT
Chassis	Heavy-duty metal	
Max. Slot	7 slots	
Drive Bay	2 x 3.5" HDD	
I/O Port	2 x USB ports	
Indicators	Power, HDD	
Switches/Buttons	1 x Power switch 1 x Reset button	
Cooling fan	2 x 8cm (rear panel)	
OSD function	Yes	
Mounting	Rack Mount	
Rack Height	4U	
Touch Panel (optional)	Resistive type with RS-232 interface.	
Dimensions (WxHxD) (mm)	431 x 176 x 280	
Weight (Net / Gross)	9.2Kg / 13Kg	10Kg / 14.3Kg
Color	Black	
Vibration	5 ~ 17 Hz, 0.1" double amplitude displacement 17 ~ 640 Hz, 1.5G acceleration peak to peak	
Shock	10G acceleration peak to peak (11ms)	
Operating Humidity	5% ~ 95%@60°C, non-condensing	
Operation Temperature	0°C ~ 50°C	

Table 3-1: RPC-6106/6108 Specifications

3.2 LCD Specifications

Table 3-2 lists the RPC-6106/6108 LCD specifications.

	RPC-6106	RPC-6108
Size	6.5"	8.4"
Input Interface	Analog VGA	Analog VGA
Resolution	VGA (640 x 480)	SVGA (800 x 600)
Pixel Pitch (mm)	0.207	0.213
Typical White Luminance (cd/m2)	400	220
Contrast Ratio	550:1	500:1
Number of Colors	262K	262K

Table 3-2: LCD Specifications

3.3 ACE-4525AP PSU Specifications

Table 3-3 lists the ACE-4525AP power supply specifications.

INPUT	Voltage	90 ~ 265Vrms Full Range		
	Frequency	47 ~ 63Hz		
	Input Current	6A(RMS)@115VAC 3A(RMS)@230VAC		
	Inrush Current	80A Max for 115VAC 120A Max for 230VAC		
OUTPUT	Voltage	Min. Load	Max. Load	Ripple/Noise
	+ 3.3V	0.5A	16A	50mV
	+ 5V	0.5A	16A	50mV
	+ 12V1	0.5A	16A	120mV
	+ 12V2	0.5A	16A	120mV
	-12V	0A	0.5A	120mV

	+5Vsb	0.1A	2.5A	50mV
	+12V1, +12V2 total Current $\leq 18W$ Total Current of +3.3V & +5V & +12V $\leq 232W$ Total Current of +3.3V & +5V $\leq 100W$			
GENERAL	Power		250W	
	PFC		Active	
	Hold-up Time		18ms minimum	
	Efficiency		70%	
	MTBF		100,000hrs	
	Temperature		0°C ~ 50°C (Operating)	
			-20 °C ~ 80°C (Storage)	
	Dimensions		190 x 100 x 40.5 mm	
	Output Connectors		1 x 20+4pin ATX 1 x 4-pin 12V CPU 4 x HDD/CDROM 1 x FDD 2 x SATA	

Table 3-3: ACE-4525AP PSU Specifications

3.4 Recommended IEI Backplanes, Motherboards and PSUs

Refer to **Appendix B** for recommended IEI backplanes and power supply units for the RPC-6106/6108 rackmount workstation.

Chapter

4

Installation

4.1 Installation Considerations

4.1.1 Installation Precautions

When installing the RPC-6106/6108, please follow the precautions listed below:

- **Read the user manual:** The user manual provides a complete description of the RPC-6106/6108 Rackmount LCD Workstation, installation instructions and configuration options.
- **Turn Off Power:** When installing the RPC-6106/6108 Rackmount LCD Workstation, make sure the power is off. Failing to turn off the power may cause severe injury to the user and/or damage the system.
- **Certified Engineers:** Only certified engineers and technicians should install and modify the RPC-6106/6108 Rackmount LCD Workstation. Non-certified engineers or technicians should not attempt to install the RPC-6106/6108 Rackmount LCD Workstation.
- **Mounting:** The RPC-6106/6108 Rackmount LCD Workstations are heavy devices. When rack mounting the RPC-6106/6108 Rackmount LCD Workstation, please ensure that at least two people are assisting with the procedure.
- **Anti-static Discharge:** Electronic components like CPU cards and backplanes must be installed into the RPC-6106/6108 Rackmount LCD Workstation. Follow proper grounding procedures before installing these components.

4.1.2 Installation Prerequisites

Prepare the following before installing the RPC-6106/6108 Rackmount LCD Workstation:

- **Completely installed CPU card:** The RPC-6106/6108 Rackmount LCD Workstation CPU card is separately purchased. Before installing the RPC-6106/6108 Rackmount LCD Workstation, a CPU card should be properly installed. The following components may also have to be installed (refer to the user manual that came with the CPU card):
 - CPU
 - Heatsink and cooling fan

RPC-6106/6108 Rackmount LCD Workstation

- Memory modules (DIMMs)
- CompactFlash® disks
- **Backplane/Motherboard:** The backplane or motherboard installed in the RPC-6106/6108 Rackmount LCD Workstation is separately purchased.
- **Disk Drives:** Disk drives installed into the RPC-6106/6108 Rackmount LCD Workstation are separately purchased. Disk drive support is CPU card dependent. Before purchasing a CPU card or disk drives, please check the CPU card disk drive support.

4.2 Unpacking

4.2.1 Packaging

When shipped, the RPC-6106/6108 Rackmount LCD Workstation is wrapped in a plastic bag. Two polystyrene ends are placed on either side of the RPC-6106/6108 Rackmount LCD Workstation. The workstation is then placed into a first (internal) cardboard box. This box is then sealed and placed into a second (external) cardboard box. The second box is also sealed. A small box containing accessory items is placed within the internal (first) box.

4.2.2 Unpacking Procedure

To unpack the RPC-6106/6108 Rackmount LCD Workstation, follow the steps below:



NOTE:

The front side LCD screen has a protective plastic cover stuck to the screen. Remove the plastic cover only after the RPC-6106/6108 Rackmount LCD Workstation has been properly installed. This ensures the screen is protected during the installation process.

- Step 1:** Use box cutters, a knife or a sharp pair of scissors to open the top of the external (second) box.
- Step 2:** Open the external (second) box.
- Step 3:** Use box cutters, a knife or a sharp pair of scissors to open the top of the internal (first) box.
- Step 4:** Lift the workstation out of the boxes.
- Step 5:** Remove both polystyrene ends from each side.
- Step 6:** Pull the plastic cover off the workstation.
- Step 7:** Make sure all the components listed in the packing list are present.

4.2.3 Packing List



NOTE:

If some of the components listed in the checklist below are missing, please do not proceed with the installation. Contact the IEI reseller or vendor you purchased the RPC-6106/6108 from or contact an IEI sales representative directly. To contact an IEI sales representative, please send an email to sales@iei.com.tw.

When the RPC-6106/6108 Rackmount LCD Workstation is received, make sure all the components listed below are present.

RPC-6106/6108 Rackmount LCD Workstation

Quantity	Description	Image
1	RPC-6106/6108 LCD workstation	
2	Handles	
1	Power cable	
1	Screw kit	
1	VGA cable	
1	RS-232 cable	
For Touch Panel (T-R) Models only		
1	TouchKit Driver CD	
1	Touch pen	

Table 4-1: Packing List

4.3 Pre-installation Preparation

4.3.1 System Planning

User supplied CPU cards and backplanes or motherboards need to be installed in the system before installing the RPC-6106/6108 Rackmount LCD Workstation.

The backplane determines the following system parameters:

- CPU card type
- Expandability

The CPU card determines the following system parameters:

- CPU
- Embedded graphics
- System memory
- HDD, FDD and optical drive connectivity and capacity
- Speed

It is therefore proper to correctly specify the system before the system is installed. This ensures that prudent selections can be made when the system is being developed.

4.3.2 Tools

Before installing the RPC-6106/6108 Rackmount LCD Workstation, make sure the following tools are on hand:

- **Phillips (crosshead) screwdriver:** All the retention screws on the system are Phillips screws.
- **Soft working mat:** When installing the RPC-6106/6108 Rackmount LCD Workstation, the screen should be placed face down on a soft working mat.

4.4 Installation Procedures

4.4.1 Preinstalled Components

The following components are preinstalled in the RPC-6106/6108 Rackmount LCD Workstation.

- Power supply unit (PSU)
- Cooling fan modules
- Drive brackets
- LCD screen

4.4.2 User Installed Components

The following user supplied components need to be installed into the RPC-6106/6108 Rackmount LCD Workstation:

- Disk drives
- Backplane and CPU card
- PCI or ISA expansion cards (optional)

4.4.3 Installation Steps

Complete the following steps to properly install the workstation:

- Step 1:** Open the top cover.
- Step 2:** Remove the disk drive bracket.
- Step 3:** Install the disk drives.
- Step 4:** Reinstall the disk drive bracket with the installed disk drives.
- Step 5:** Install the backplane.
- Step 6:** Install the CPU card.
- Step 7:** Install the PCI or ISA expansion cards (optional).
- Step 8:** Connect all required cables.
- Step 9:** Close the top cover.
- Step 10:** Mount the workstation.

4.5 Installing Components into the RPC-6106/6108



NOTE:

This section gives a generic description of the component installation process for the RPC-6106/6108 Rackmount LCD Workstation.

**WARNING:**

Failure to follow the installation procedures outlined in this section may cause severe damage to the RPC-6106/6108 Rackmount LCD Workstation. Please follow the installation instructions carefully.

4.5.1 Remove the Top Cover

The top cover is secured to the RPC-6106/6108 Rackmount LCD Workstation with six screws (three each on the left and right panels). To remove the top cover, please follow the steps below.

Step 1: Remove the six top cover retention screws (three each on the left and right panels). (See **Figure 4-1**)



Figure 4-1: Top Cover Retention Screws

Step 2: Slide the top cover toward the rear panel to remove (**Figure 4-2**).



Figure 4-2: Remove the Top Cover from the Chassis

4.5.2 Remove the Drive Bracket

The drive bracket is secured to the RPC-6106/6108 Rackmount LCD Workstation with four retention screws inside the base of the chassis. To remove the drive bracket, please follow the steps below.

Step 1: Remove four retention screws that secure the drive bracket to the chassis
(**Figure 4-3**)

RPC-6106/6108 Rackmount LCD Workstation

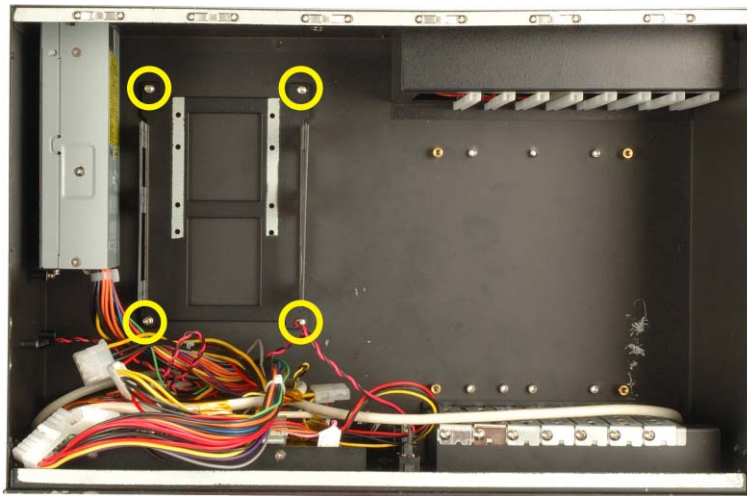


Figure 4-3: Drive Bracket Retention Screws

Step 2: Remove the drive bracket from the chassis.

4.5.3 Install Drives

The drive bracket supports two 3.5" disk drives. To install disk drives, follow the instructions below.

Step 1: Remove the drive bracket from the RPC-6106/6108 Rackmount LCD Workstation (see **Section 4.5.3**).

Step 2: Slide the disk drive into the drive bracket. Make sure the signal connectors and the power connector of the drive are facing the front of the bracket.

Step 3: Insert the appropriate number of retention screws into each side of the disk drive through the drive bracket.

4.5.4 Reinstall the Drive Brackets

After the drives have been installed, reinstall the drive brackets into the chassis.



NOTE:

It might be easier to connect the disk drive IDE/SATA connectors to the ribbon cables and the disk drive power connectors to the PSU before the drive brackets are reinstalled into the chassis.

-
- Step 1:** Remount the drive brackets in the original position they were removed from.
 - Step 2:** Make sure all drive bracket retention screw holes are properly aligned with the corresponding retention screw holes in the workstation.
 - Step 3:** Reinsert all drive bracket retention screws.

RPC-6106/6108 Rackmount LCD Workstation

4.5.5 Install the Backplane

To install a backplane, follow the instructions below.

Step 1: Install the correct amount of copper pillars (**Figure 4-4**) into the base of the chassis.



NOTE:

The backplane shown in **Figure 4-4** is an example for reference only. The location and number of copper pillars depends on the backplane being used.

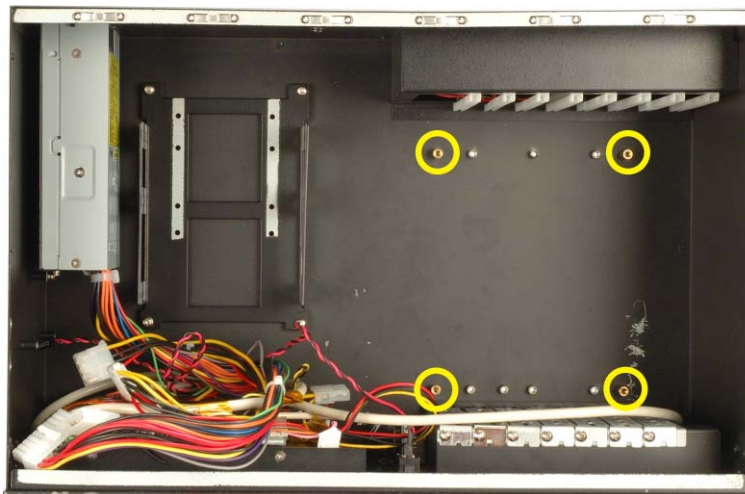


Figure 4-4: Install Copper Pillars and White Spacers

- Step 2:** Mount the backplane into the chassis. Make sure the backplane is positioned so that when the CPU card and PCI/ISA expansion cards are installed, both the CPU card and the PCI/ISA card I/O connectors face the I/O brackets on the front panel.
- Step 3:** Align the retention screw holes in the backplane with the copper pillars installed in **Step 1**.
- Step 4:** Insert retention screws to secure the backplane to the chassis (**Figure 4-5**).

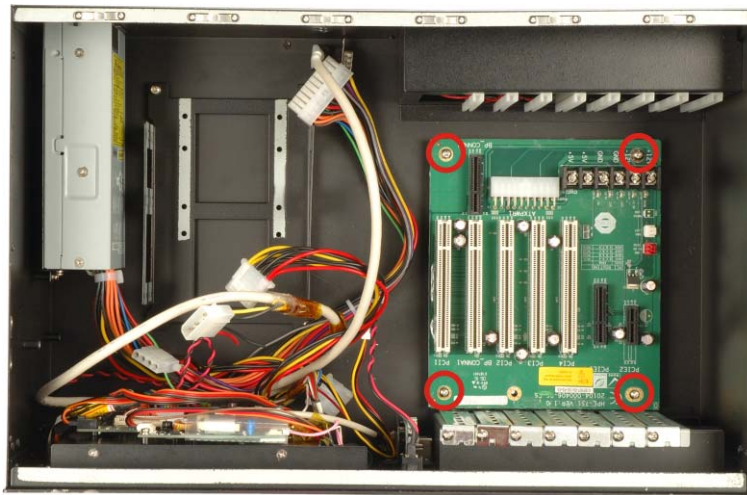


Figure 4-5: Backplane Retention Screws

4.5.6 Install the CPU Card



CAUTION:

Before a CPU card is inserted into the backplane, make sure the CPU card has been correctly prepared and that all the CPU card jumper settings are configured correctly. For CPU card component installation procedures, please refer to the user manual that came with the CPU card.

**CAUTION:**

Depending on the location of the CPU card, the disk drive ribbon cable connectors and other peripheral device cable connectors may have to be connected to the CPU card before it can be installed.

To install a CPU card onto the backplane, follow the instructions below:

Step 1: Remove the slot cover retention screw to remove the slot bracket from the chassis rear panel (**Figure 4-6**).

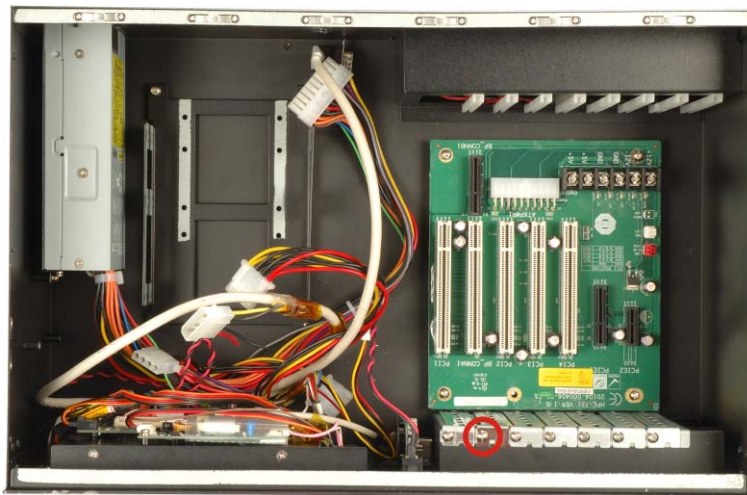


Figure 4-6: Slot Cover Retention Screw

Step 2: Slide the CPU card into the reserved PCI/ISA socket on the backplane. (**Figure 4-7**)

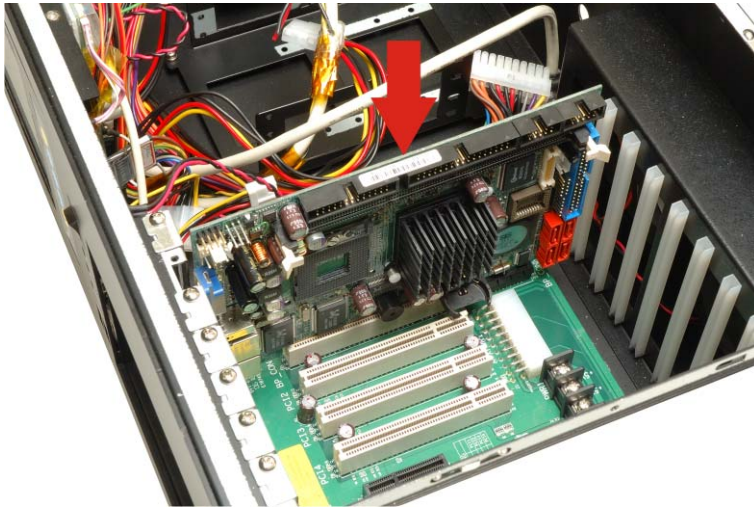


Figure 4-7: Install the CPU Card

Step 3: To secure the CPU card, reinsert the previously removed slot cover retention screw.

4.5.7 Install the PCI/ISA Expansion Card

To install a PCI expansion card or an ISA expansion card please follow the instructions below.

Step 1: Remove the slot cover retention screw to remove the slot bracket from the chassis rear panel (**Figure 4-6**).

Step 2: Slide the PCI/ISA expansion card into the reserved PCI/ISA socket on the backplane.

Step 3: To secure the PCI/ISA expansion card, reinsert the previously removed slot cover retention screw and reinstall the card bracket.

4.5.8 Connect the Cables

The following cables may have to be connected depending on the CPU board and the backplane installed in the system:

- VGA cable

RPC-6106/6108 Rackmount LCD Workstation

- PSU cables
- Disk drive ribbon cables
- RS-232 cable (T-R models only)

Other connections may have to be made; please refer to the documentation that came with the CPU card.

4.5.8.1 VGA Cable

To monitor the system on the LCD on the front panel, use the VGA cable in the package to connect the AD board and the VGA connector on the external interface of the CPU card. Follow the steps below to connect the VGA cable.

Step 1: Connect VGA cable to the VGA connector on the AD board (**Figure 4-8**).



Figure 4-8: VGA Connector on the AD Board

Step 2: Loosen the two thumb screws to remove the cover of the cable window on the front panel of the RPC-6106/6108.

Step 3: Make the VGA cable go around the CPU card and pull the cable out through the cable window in the front panel of the RPC-6106/6108 (**Figure 4-9**).



Figure 4-9: VGA Connector on the Front Panel

Step 4: Connect the VGA cable to the VGA connector on the CPU card. Replace the cable window cover (**Figure 4-10**).



Figure 4-10: VGA Connector on the Front Panel

4.5.8.2 PSU Cables

PSU cables must be connected to the following components (if installed):

- CPU card
- Backplane
- HDD
- Optical drive

4.5.8.3 Disk Drive Ribbon Cables

Disk drive ribbon cables must be connected to the corresponding CPU card disk drive connectors.

4.5.8.4 RS-232 Cable (T-R Models Only)

To connect the RS-232 connector for using touch screen, please follow the steps below:

Step 1: Connect the RS-232 cable that comes with the RPC-6106/6108 to the RS-232 connector on the CPU card.

Step 2: Locate the other RS-232 cable on the AD board (**Figure 4-11**).



Figure 4-11: RS-232 Cable on the AD Board

Step 3: Connect these two RS-232 cables.

4.5.9 Close the Top Cover

Before closing the top cover, make sure the following items have been completed:

- The backplane is properly installed
- The CPU card is properly installed
- The PCI/ISA expansion cards are properly installed
- The disk drives are properly installed into the drive brackets
- The drive brackets are properly reinstalled into the workstation
- All cables are properly connected

If all of the above listed items have been properly installed, close the top cover and reinsert the previously removed retention screws.

4.6 Mounting the RPC-6106/6108 Rackmount Workstation

The RPC-6106/6108 workstation can be mounted to the posts of a standard 19" rack cabinet. Adequate rack tray or side brackets should also be available for supporting the weight of the workstation. Make sure that all cabling is correctly attached and carefully routed when installing the workstation.



NOTE:

At least two people are required to mount the workstation. The rack or cabinet into which the workstation is installed should provide adequate and sufficient ventilation, grounding, power source, and stability features.



NOTE:

This section gives a generic description of the rack mounting process for the RPC-6106/6108 rackmount workstation. Alternate rack mounting systems may require different mounting procedures. Be sure to follow the manufacturer's

RPC-6106/6108 Rackmount LCD Workstation

instructions when mounting the workstation.

To rack mount the workstation, please follow the steps below.

Step 1: The left and right side panels of the workstation each have four screw holes for rack handle bracket installation. Assemble the rack handle brackets and secure them to the workstation. (See **Figure 4-12**)

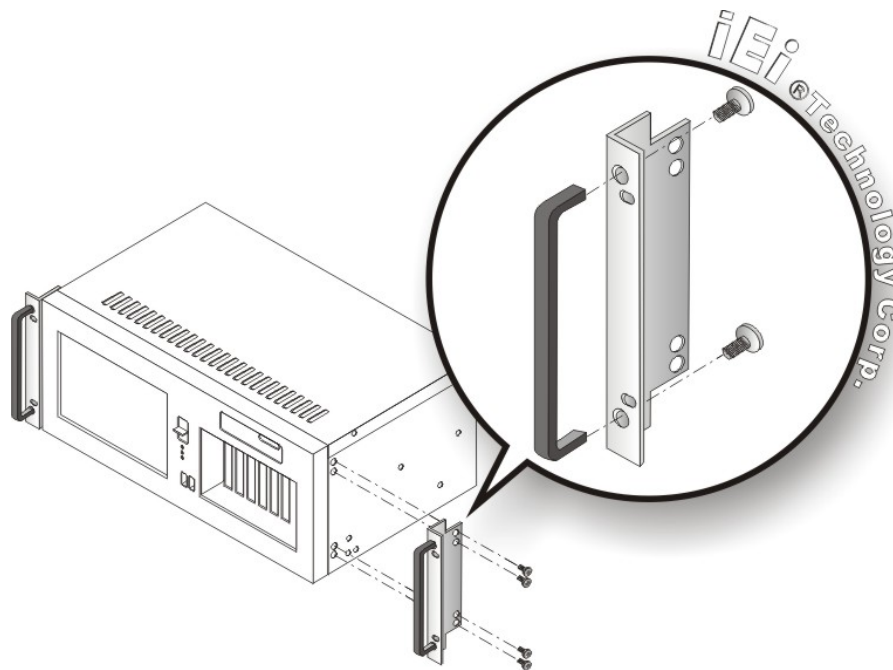


Figure 4-12: Rack Handle Bracket Assembly and Installation

Step 2: Attach the slide brackets to the rack per the manufacturer's instructions.
(See **Figure 4-13**)

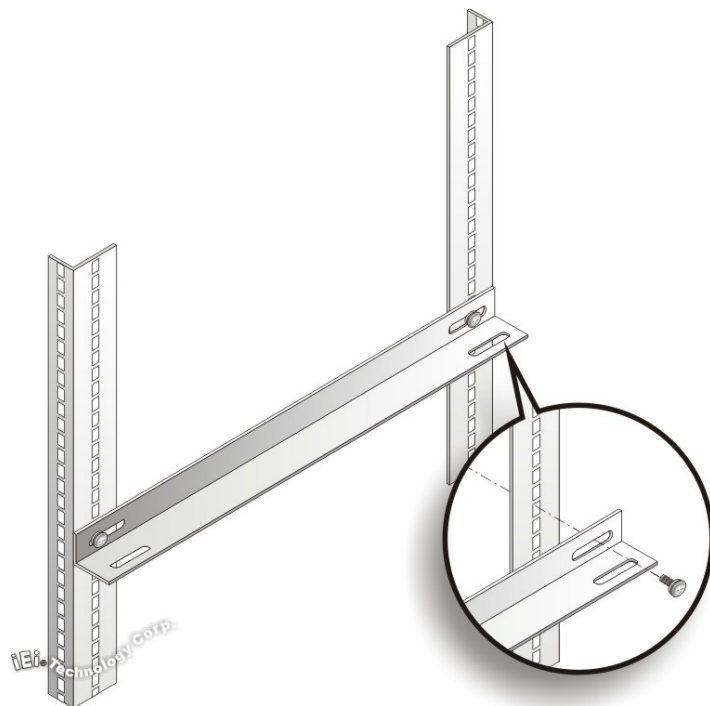


Figure 4-13: Rack Slide Bracket Installation

RPC-6106/6108 Rackmount LCD Workstation

Step 3: Insert the workstation into the rack slide brackets until the handle brackets are flush against the rack. (See **Figure 4-14**)

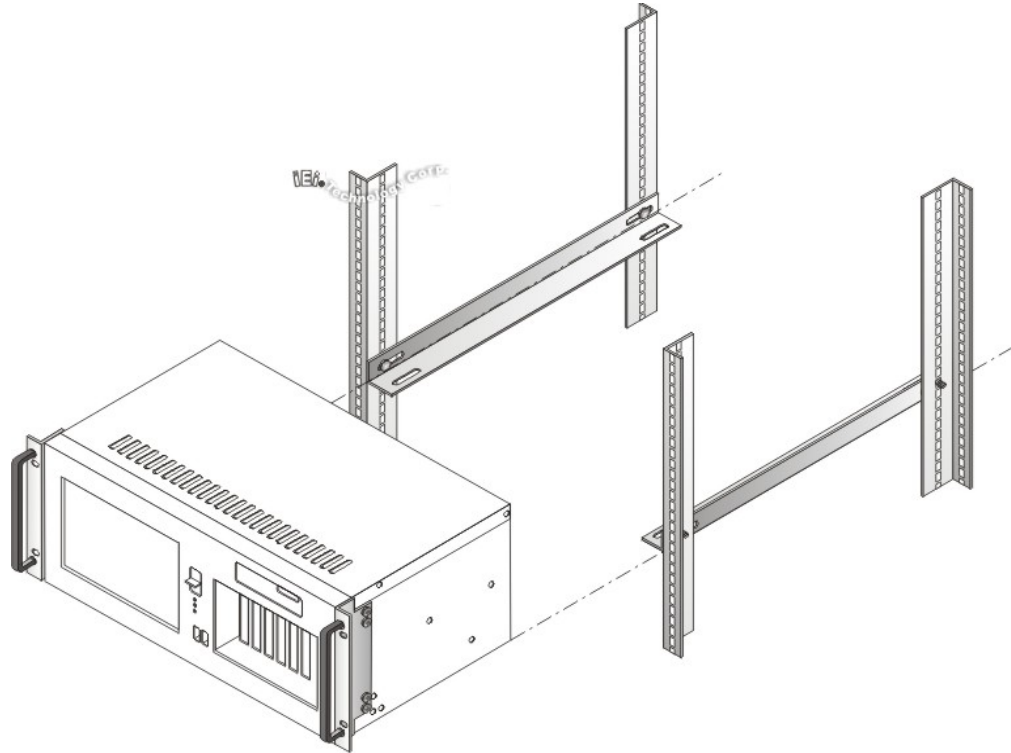


Figure 4-14: Install Workstation into Rack

Step 4: Secure the workstation handle brackets to the rack with the fasteners that came with the workstation.

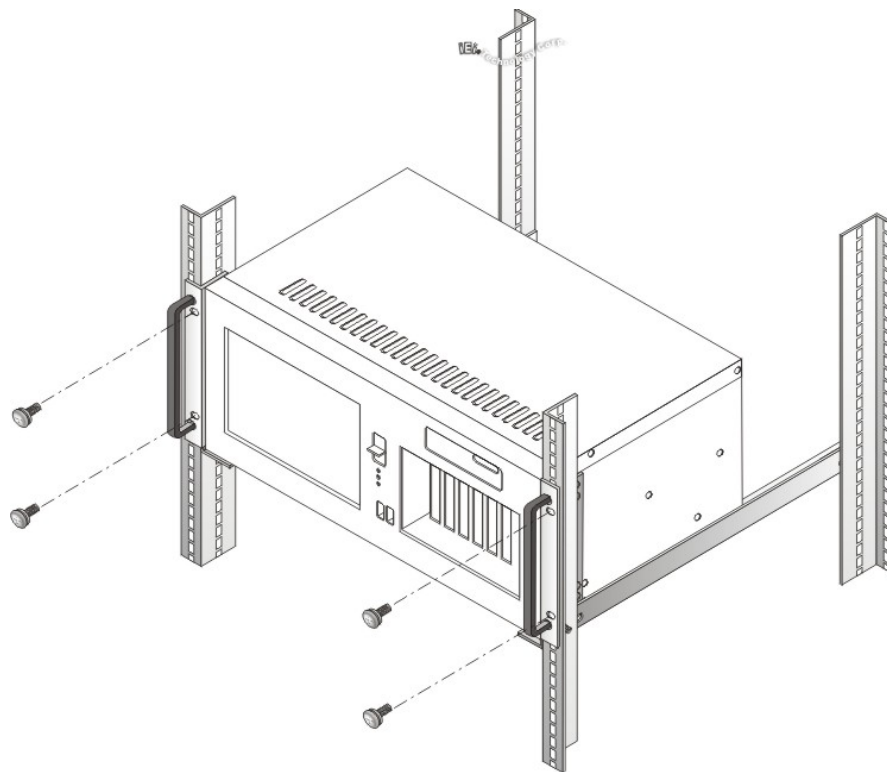


Figure 4-15: Secure Workstation to Rack

Chapter

5

Maintenance

5.1 Maintenance Overview

Maintaining the RPC-6106/6108 Rackmount LCD Workstation is essential for the smooth operation of system applications. Maintaining the system might mean replacing failed components during the lifetime of the workstation. The following RPC-6106/6108 components can be replaced.

- CPU card
- PCI/ISA expansion card
- Backplane
- Power supply unit (PSU)
- Cooling fans
- 3.5" Disk drives



WARNING:

Never attempt to remove the external panels or access any internal components of the workstation while it is connected to a power source. Always be sure to turn off and disconnect the workstation from all power sources before attempting to access the internal components. Failure to do so may seriously injure the user or cause irreparable damage the internal components of the workstation.

5.2 CPU Card Replacement

To replace a CPU card, please follow the instructions below.

- Step 1:** Turn off and disconnect the workstation from all power sources.
- Step 2:** Remove the workstation from the rack in which it is installed.
- Step 3:** Open the top cover of the RPC-6106/6108 Rackmount LCD Workstation. (See **Section 4.5.1**)
- Step 4:** Disconnect all internal and external peripheral device connections from the CPU card.
- Step 5:** Remove the retention screw that secures the CPU card to the slot on the front panel.
- Step 6:** Slide the CPU card out of the workstation. Make sure the back edge of the CPU card slides into the guide rails on the chassis.
- Step 7:** Install a new CPU card. (See **Section 4.5.6**)
- Step 8:** Insert the slot retention screw that was removed earlier.
- Step 9:** Reinstall the top cover of the workstation. (See **Section 4.5.9**)
- Step 10:** Reinstall the workstation into the rack. Refer to **Section 4.6** for complete mounting instructions.

5.3 PCI/ISA Expansion Card Replacement

To replace a PCI/ISA expansion card, please follow the instructions below.

- Step 1:** Turn off and disconnect the workstation from all power sources.
- Step 2:** Remove the workstation from the rack in which it is installed.
- Step 3:** Open the top cover of the RPC-6106/6108 Rackmount LCD Workstation. (See **Section 4.5.1**)

- Step 4:** Disconnect all internal and external peripheral device connections from the PCI/ISA expansion card.
- Step 5:** Remove the retention screw that secures the CPU card to the slot on the rear panel.
- Step 6:** Slide the expansion card out of the workstation.
- Step 7:** Install a new expansion card. (See **Section 4.5.7**)
- Step 8:** Insert the slot retention screw that was removed earlier.
- Step 9:** Reinstall the top cover of the workstation. (See **Section 4.5.9**)
- Step 10:** Reinstall the workstation into the rack. Refer to **Section 4.6** for complete mounting instructions.

5.4 Backplane Replacement

To replace a backplane, please follow the instructions below.

- Step 1:** Turn off and disconnect the workstation from all power sources.
- Step 2:** Remove the workstation from the rack in which it is installed.
- Step 3:** Open the top cover of the RPC-6106/6108 Rackmount LCD Workstation. (See **Section 4.5.1**)
- Step 4:** Disconnect and remove all CPU cards (see **Section 5.2**) and PCI/ISA expansion cards (see **Section 4.5.7**).
- Step 5:** Remove the retention screws that secure the backplane to the workstation (see **Section 4.5.5**).
- Step 6:** Remove the backplane from the chassis
- Step 7:** Install a new backplane into the chassis.
- Step 8:** Reinstall and reconnect all CPU cards (see **Section 4.5.6**) and PCI/ISA expansion cards (see **Section 4.5.7**).

RPC-6106/6108 Rackmount LCD Workstation

Step 9: Close the back cover of the workstation and reinstall the workstation into the cabinet or rack in which it was previously installed. Refer to **Section 4.6** for complete mounting instructions.

5.5 PSU Replacement

To replace a PSU, please follow the instructions below.

Step 1: Turn off and disconnect the workstation from all power sources.

Step 2: Remove the workstation from the rack in which it is installed.

Step 3: Open the top cover of the RPC-6106/6108 Rackmount LCD Workstation. (See **Section 4.5.1**)

Step 4: Disconnect all the PSU cables from their devices.

Step 5: Remove the four external retention screws that secure the PSU assembly to the rear panel of the workstation (**Figure 5-1**).



Figure 5-1: PSU External Retention Screws

Step 6: Remove the two internal retention screws that secure the PSU assembly to the left side panel of the workstation (**Figure 5-2**).



Figure 5-2: PSU Internal Retention Screws

Step 7: Install the new PSU into the workstation making sure the PSU power connector and PSU cooling fan are facing out of the workstation.

Step 8: Reinsert the two previously removed internal retention screws that secure the PSU assembly to the left side panel of the workstation.

Step 9: Reinsert the four previously removed external retention screws that secure the PSU assembly to the rear panel of the workstation.

Step 10: Close the back cover of the workstation and reinstall the workstation into the cabinet or rack in which it was previously installed. Refer to **Section 4.6** for complete mounting instructions.

5.6 System Fan Replacement

There are two 8 cm cooling fans inside the PAC-130G chassis. To replace the system fan, please follow the instructions below.

RPC-6106/6108 Rackmount LCD Workstation

**CAUTION:**

Carefully note the direction and orientation of the existing system fan prior to replacement.

Step 1: Turn off and disconnect the workstation from all power sources.

Step 2: Remove the workstation from the rack in which it is installed.

Step 3: Loosen the fan filter bracket thumbscrews on the rear panel (**Figure 5-4**).



Figure 5-3: System Fan Retention Thumbscrews

Step 4: Disconnect the system fan from the PSU.

Step 5: Remove the four retention screws on the fan bracket (**Figure 5-4**).



Figure 5-4: System Fan Bracket Retention Screws

Step 6: Replace the new fan and reinsert the four previously removed retention screws

to secure the fan to the fan bracket.

Step 7: Connect the new system fan to the PSU.

Step 8: Reinstall the fan bracket and fasten the thumbscrews.

5.7 Disk Drive Replacement

5.7.1 3.5" Disk Drive

To replace a disk drive, please follow the instructions below.

Step 1: Turn off and disconnect the workstation from all power sources.

Step 2: Remove the workstation from the rack in which it is installed.

Step 3: Open the top cover of the RPC-6106/6108 Rackmount LCD Workstation.

(See **Section 4.5.1**)

Step 4: Disconnect all cabling from every hard drive.

Step 5: Remove the drive bracket (see **Section 4.5.2**).

Step 6: Remove the retention screws that secure the disk drive to the drive bracket and slide the drive out of the bracket.

Step 7: Install the new disk drive. (See **Section 4.5.3**)

Step 8: Reinstall the drive bracket to the workstation. (See **Section 4.5.4**)

Step 9: Reconnect all disk drive cabling.

Step 10: Close the top cover of the workstation and reinstall the workstation into the cabinet or rack in which it was previously installed. Refer to **Section 4.6** for complete mounting instructions.

Chapter

6

On Screen Display (OSD) Controls

6.1 User Mode OSD Structure

6.1.1 OSD Buttons

There are several on-screen-display (OSD) control buttons oriented either vertically (RPC-6106) or horizontally (RPC-6108) on the front panel of the workstation. **Figure 6-1** shows a typical arrangement of OSD controls.

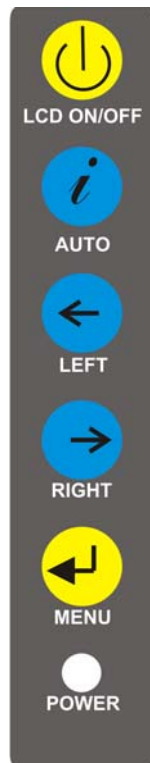


Figure 6-1: OSD Control Buttons



NOTE:

Pressing the direction keys (LEFT or RIGHT) can bring out a simple menu that adjusts the LCD screen brightness and contrast values.

6.1.2 OSD Menu Structure

Table 6-1 shows the OSD menu structure.

Level 0	Level 1	Value
Main Display Features Menu	Brightness	0 to 100
	Contrast	0 to 100
	Horizontal Size	0 to 100
	Phase	0 to 100
	H. Position	0 to 100
	V. Position	0 to 100
	Sharpness	1 to 5
Speaker	Volume	This menu is currently disabled, and will be implemented with models equipped with speakers.
	Mute	
Color Menu	9300	- Preset NTSC value
	7500	- Preset NTSC value
	User	RGB values from 0 to 100
Language Menu	English	Select
	French	
	German	
	Spanish	
	Italian	
	Japanese	
	Russian	
	Traditional Chinese	
	Simplified Chinese	
OSD Menu	OSD Time Out	0 to 60 sec
	OSD Position	1 to 5
	OSD Transparency	0 to 100
	Auto Setting	On or Off
	Recall	No or Yes
	Aspect Ratio	4:3 or 5:4

Level 0	Level 1	Value
Signal Menu	Digital	Select
	Analog	
Backlight Menu	Light Enable	On or Off
	Light Contrast	0 to 100
	Light Brightness	0 to 100
	Light H Start	0 to 100
	Light H Width	0 to 100
	Light V Start	0 to 100
	Light V Height	0 to 100

Table 6-1: OSD Menus

6.2 Using the OSD

OSD menu options are described below.

6.2.1 Main Display Features

Main display features are shown in **Figure 6-2**.



Figure 6-2: Main Display Features

RPC-6106/6108 Rackmount LCD Workstation

- **Brightness:**

The brightness option adjusts the brightness of screen. This function adjusts the offset value of ADC. Setting this value too high or too low will affect the quality of image.

- **Contrast:**

This function adjusts the gain value of ADC. Adjusting this value too high or too low will worsen the quality of image.

- **Horizontal Size:**

This item adjusts the screen size in the horizontal direction.

- **Phase:**

This option adjusts the input signal and dot clock position (Analog only).

- **H. Position:**

Adjusts the horizontal position of the display screen.

- **V. Position:**

Adjusts the vertical position of the display screen.

- **Sharpness:**

Adjusts the sharpness level to one of the 5 preset values. This option may help reduce the softening edges around displayed objects.

6.2.2 Color

Color options are shown in **Figure 6-3**.



Figure 6-3: Color Options

The Color menu fine-tunes the palette of color hues for the LCD.

- **9300:**
NTSC standard Kelvin
- **7500:**
NTSC standard Kelvin
- **6500:**
NTSC standard Kelvin
- **User:**
This item allows fine-tuning the balance among Red, Green, and Blue color hues if images look garish or unrealistic.

6.2.3 Language

The Languages are shown in **Figure 6-4**.



Figure 6-4: Language Menu

This menu provides options for selecting ODS screen legends in a preferred language.

6.2.4 OSD Configurations

The OSD configurations are shown in **Figure 6-5**.



Figure 6-5: OSD Configurations Menu

OSD Configurations are described below.

- **OSD Time Out:**
Determines how many seconds the OSD screen stays on screen before it disappears when OSD is left unattended.
- **OSD Position:**
Adjusts the OSD position on the screen. Position 1 is in the upper left of the screen, position 2 in the upper right and position 3 in the center.
- **OSD Transparency**
Determines the opacity of OSD background.
- **Auto Setting**
This function automatically adjusts the LCD screen position in situations such as connecting the LCD to a different host computer.
- **Recall**
Restores the default OSD settings. Note that this will restore all default display settings.

■ Aspect Ratio

Adjusts the display ratio referring to the width of the screen and then to the height of the screen.

6.2.5 Signal

The Signal menu in **Figure 6-6** enables manual selection of the type of graphic source input, i.e., analog (15-pin VGA) or digital (DVI-D).



Figure 6-6: Signal Menu

6.2.6 Backlight

The Backlight menu in **Figure 6-7** enables users to configure the LCD backlight.



Figure 6-7: Backlight Menu

Backlight Menu options are described below.

- **Light Enabled:**
Turns backlight on or off.
- **Light Contrast:**
Adjusts the backlight contrast.
- **Light Brightness:**
Adjusts the backlight brightness.
- **Light H Start:**
Adjusts the backlight projection area in the horizontal direction.
- **Light H Width:**
Adjusts the width of the backlight projection area.
- **Light V Start:**
Adjusts the backlight projection area in the vertical direction.
- **Light V Height:**
Adjusts the height of the backlight projection area.



THIS PAGE IS INTENTIONALLY LEFT BLANK

Chapter

7

Software Driver

**NOTE:**

The following information is provided for workstations with touch screens.

7.1 Touch Screen Driver

The touch screen controller enables analog resistive touch screens for four-wire, five-wire & eight-wire models. The controller directly communicates with the PC system through the touch screen communications interface. The controller design is superior in sensitivity, accuracy, and friendly operation. The touch screen driver emulates the left mouse button and the right mouse button functions.

The touch screen driver supports the following operating systems:

- Microsoft Windows versions:
 - Microsoft Windows 95
 - Microsoft Windows 98
 - Microsoft Windows ME
 - Microsoft Windows 2000
 - Microsoft Windows NT
 - Microsoft Windows XP
 - Microsoft Windows XP Tablet PC Edition
- Microsoft Windows CE versions:
 - Microsoft Windows CE 2.12
 - Microsoft Windows CE 3.0
 - Microsoft Windows CE. NET
- Linux
- IMac
- DOS.

Driver installation is described below.

RPC-6106/6108 Rackmount LCD Workstation

7.2 Driver Installation

To install the touch screen software driver, please follow the steps below.

Step 1: Insert the TouchKit driver CD that came with the RPC-6106/6108 rackmount workstation into the CD drive.

Step 2: Once the CD drive is installed, the screen in **Figure 7-1** appears.

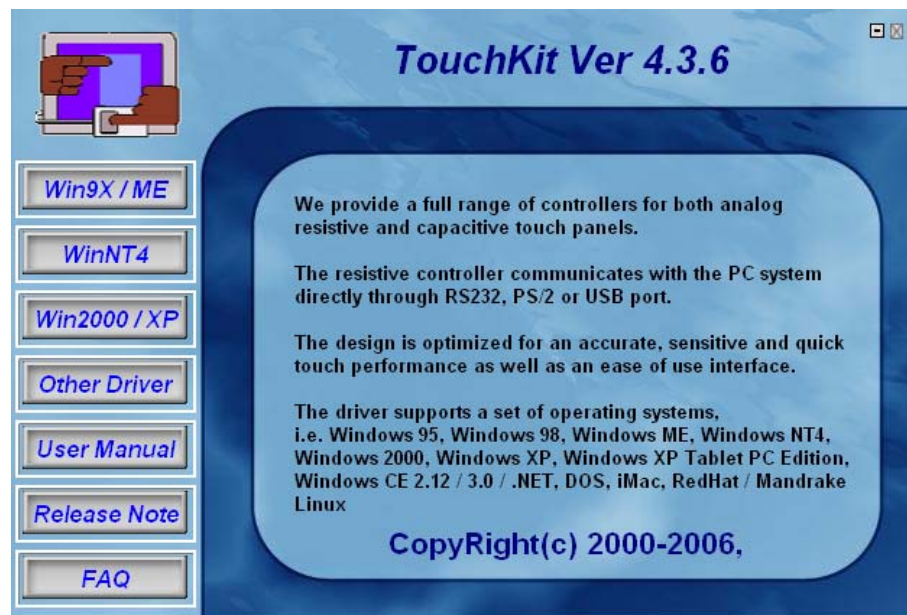


Figure 7-1: Driver CD Pop Up Screen

Step 3: Select the operating system installed on the system from the menu on the left side of the screen.

**NOTE:**

The following description is for driver installation using a Windows 2000 OS. If a different OS is installed, please refer to the driver user manual for the relevant OS. The driver user manuals can be accessed by selecting “**User Manual**” from the menu on the left side of the “**Driver CD Pop Up Screen**”.

Step 4: Once the OS system is selected, the touch kit setup will prepare the install shield wizard (**Figure 7-2**).

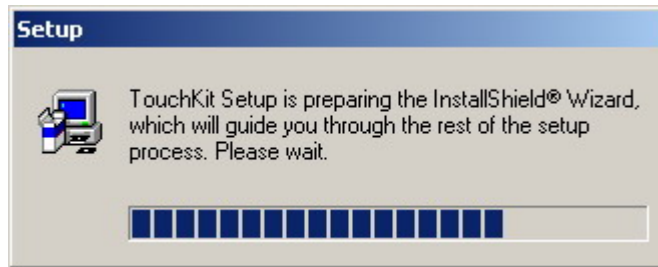


Figure 7-2: Install Shield Wizard Preparation

Step 5: After the Install Shield Wizard is ready, a welcome screen appears (**Figure 7-3**).

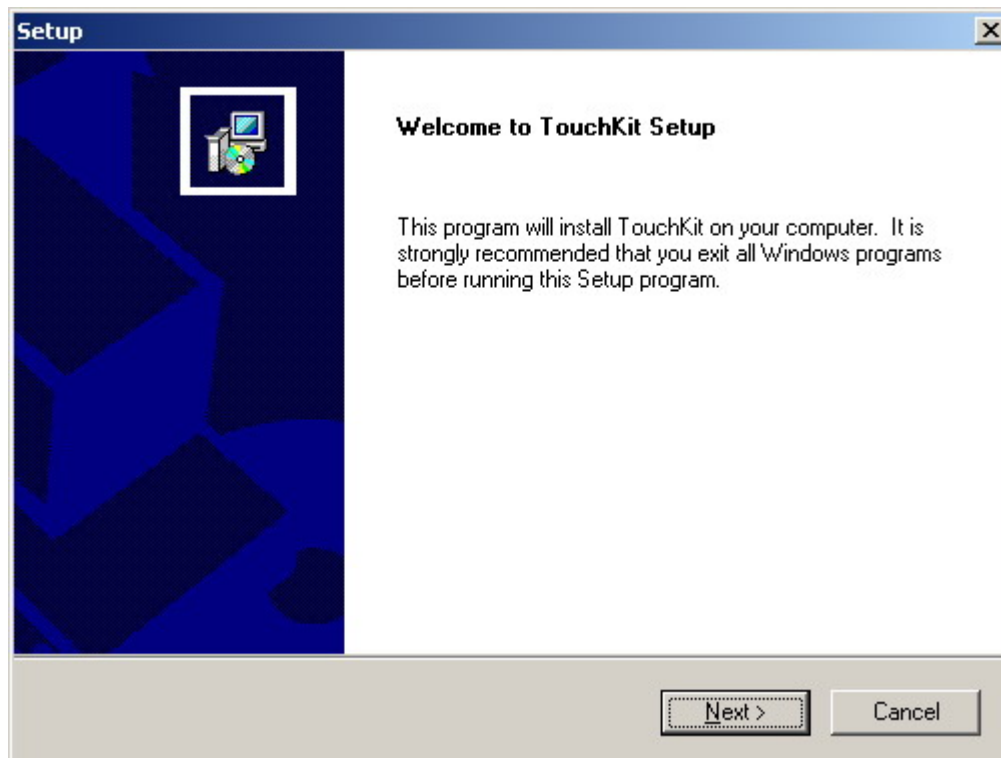


Figure 7-3: Welcome Screen

Step 6: To continue the installation process click **NEXT**.

Step 7: An Install PS/2 interface driver screen appears (**Figure 7-4**). It is not necessary to install the PS/2 interface driver. To continue click **NEXT**.

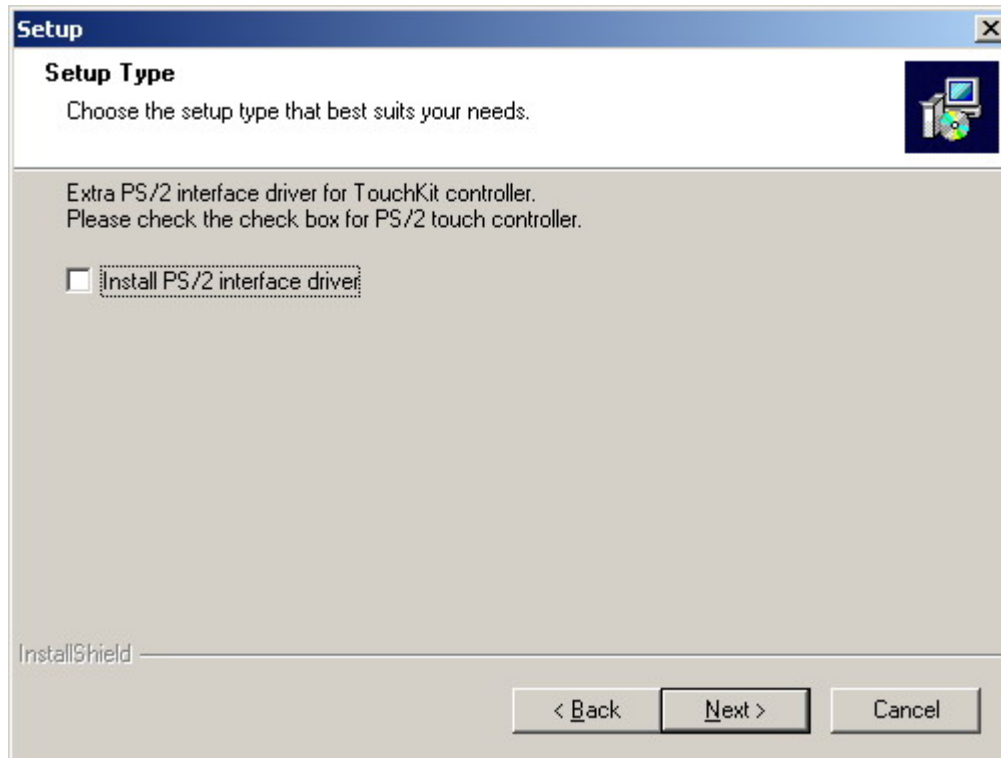


Figure 7-4: Install PS/2 Interface Driver

Step 8: Four point calibration options are then selected (**Figure 7-5**). Four point calibrations can be done every time a user boots up, during the next time the system boots or never. Select if and when a four-point calibration should be done. Click **NEXT** to continue.

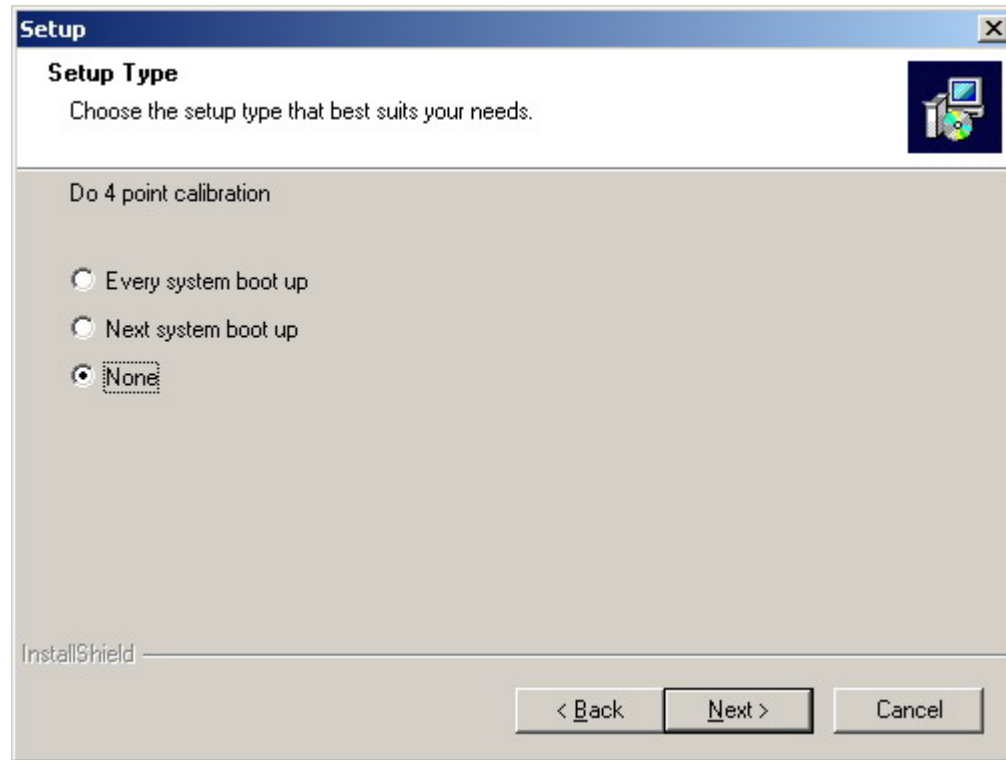


Figure 7-5: Install PS/2 Interface Driver

RPC-6106/6108 Rackmount LCD Workstation

Step 9: The user is then prompted to ensure the touch monitor or the USB for the touch controller is plugged into the system (**Figure 7-6**). Once the touch controller is plugged into the system, click “OK.”



Figure 7-6: Touch Monitor/USB Touch Controller Confirmation

Step 10: The user is then prompted to select multi-monitor system support (**Figure 6-7**). Make the appropriate selection and click **NEXT** to continue.

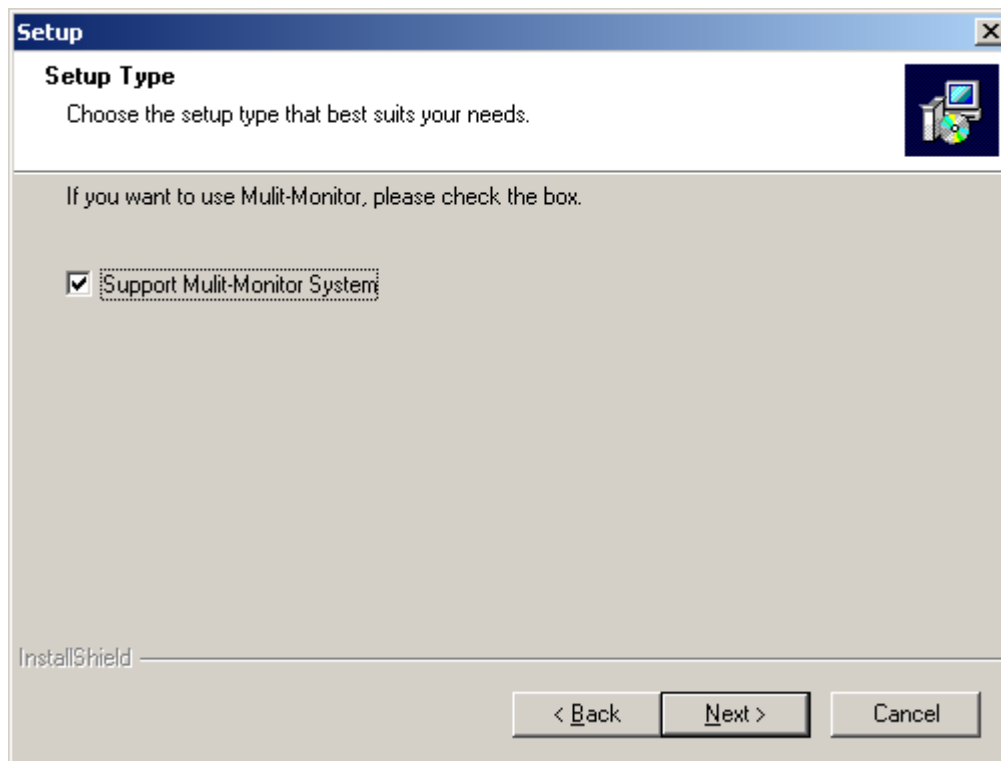


Figure 7-7: Controller Installation Directory

Step 11: The user is then prompted to select a file directory in which the touch kit controller is installed (**Figure 7-8**). The default directory is “C:\Program Files\TouchKit.” If a different folder must be used, select browse and then select the folder. Once the folder is selected, click **NEXT** to continue.

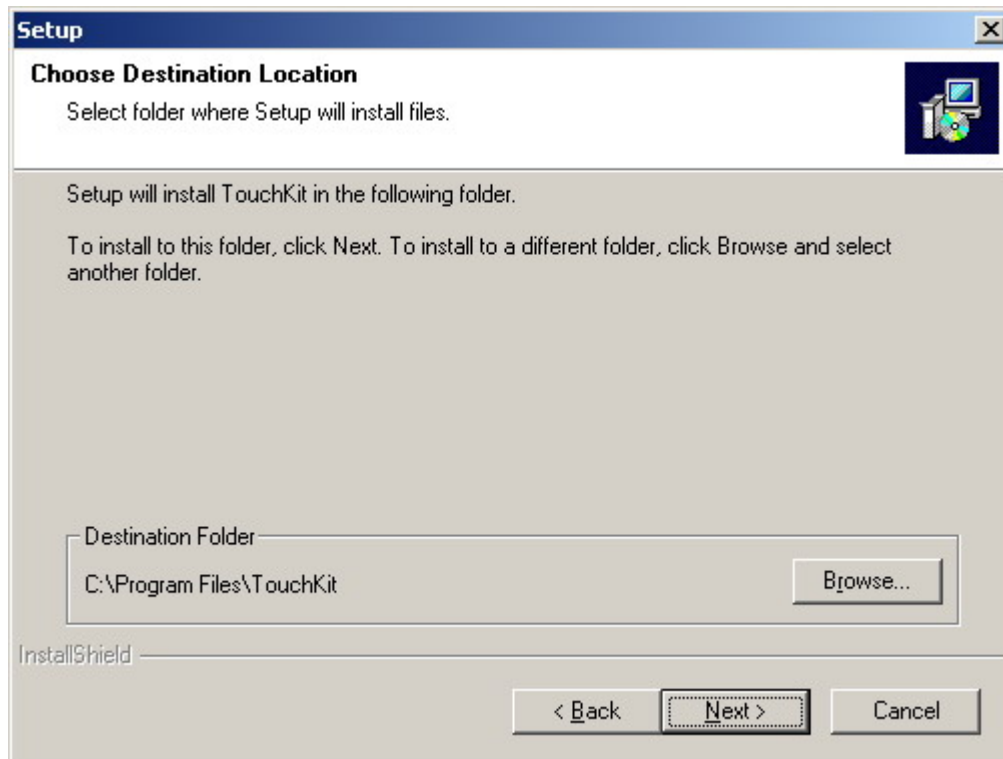


Figure 7-8: Controller Installation Directory

RPC-6106/6108 Rackmount LCD Workstation

Step 12: The user is then prompted to select a file directory in which the program icons are saved (**Figure 7-9**). The default folder is "TouchKit." If a different folder must be used, select a folder from the list shown. Once the folder is selected, click **NEXT** to continue.

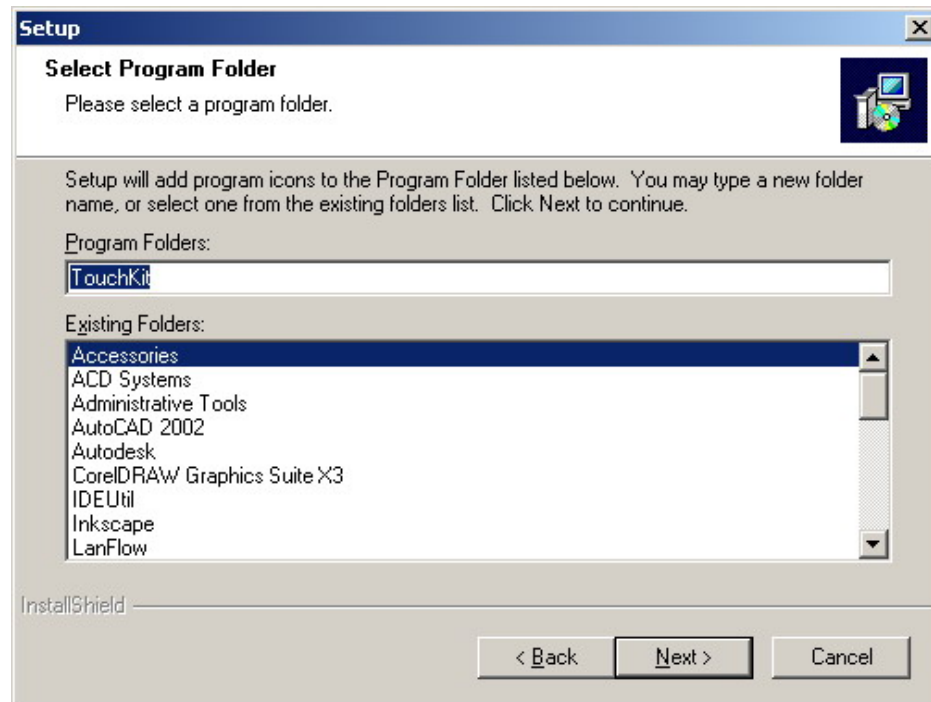


Figure 7-9: Program Icon Directory

Step 13: The program then starts installing (Figure 7-10).

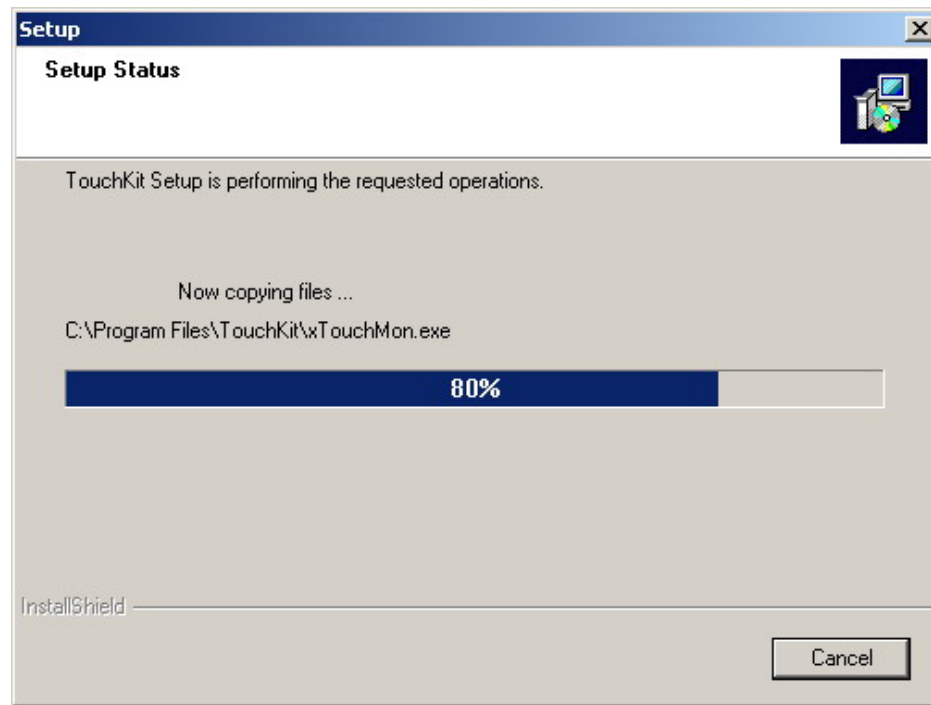


Figure 7-10: Installing

Step 14: Once the program is finished installing, the user is prompted to restart the computer now or to restart the computer later (**Figure 7-11**). Select when the computer should be restarted and click "**FINISH**" to complete the driver installation procedure.

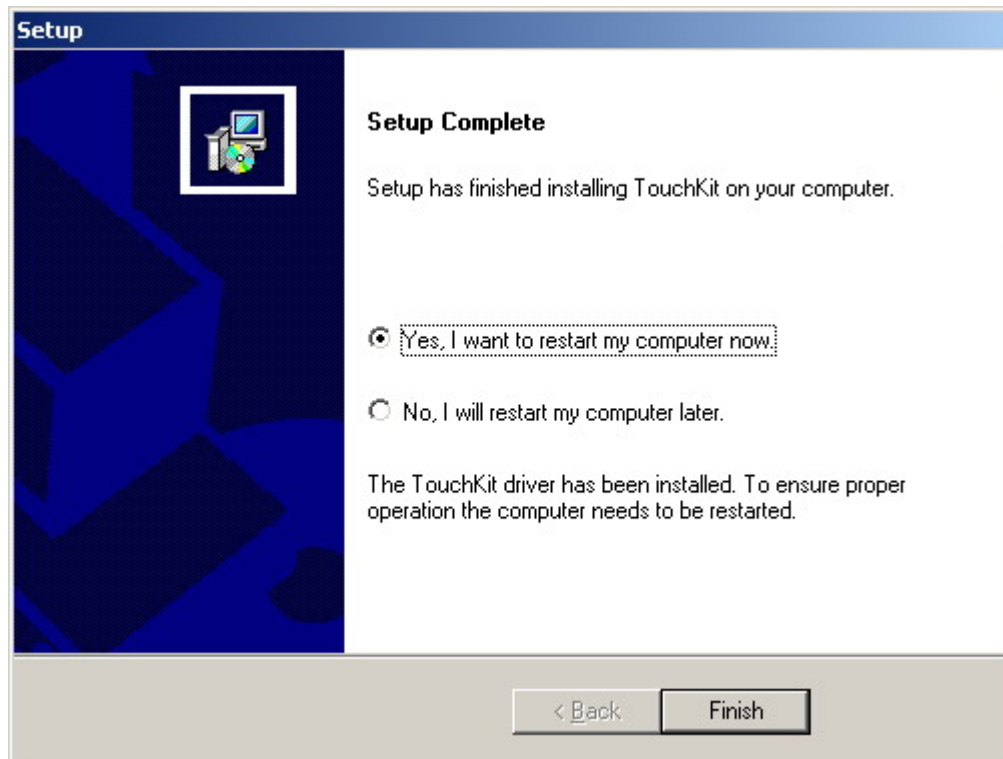


Figure 7-11: Installation Complete

7.3 Touch Panel Driver Configuration

To configure the touch screen driver options, refer to the TouchKit user manual located on the driver installation CD.



THIS PAGE IS INTENTIONALLY LEFT BLANK

Appendix

A

Certification

A.1 RoHS Compliant

All RPC-6106/6108 rackmount workstations comply with the Restriction of Hazardous Materials (RoHS) Directive. This means that all components used to build the industrial workstations and the workstation itself are RoHS compliant.

The RoHS Directive bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.

Appendix

B

Recommended IEI Backplanes and PSUs

The following IEI backplanes and power supply options are recommended for the RPC-6106/6108 Rackmount LCD Workstation. For more information about these backplanes and power supply units, please contact an IEI sales representative or visit the IEI website (www.ieiworld.com).

B.1 RPC-6106/6108 Backplane Options

Table B-1 shows the backplane options for RPC-6106/6108.

Model No.	SBC Type	PCI	ISA	PCle			PSU Connector
				x 1	x 4	x 16	
BP-7S-RS-R30	ISA	0	7	0	0	0	AT
IP-7S-RS-R30	PCISA	4	2	0	0	0	AT
IP-7SA-RS-R30	PCISA	4	2	0	0	0	ATX
HPE-7S1	PCI/PCle	4	0	2	0	0	ATX
HPE-8S1	PCI/PCle	4	0	2	0	0	ATX

Table B-1: Backplane Options

B.2 Power Supply Options

Table B-2 shows the power supply options for RPC-6106/6108.

Type	Model No.	Watt
AT	ACE-916AP-RS	150W
ATX	ACE-816AP-RS	150W
	ACE-4518AP-RS	180W
	ACE-4525AP-RS	250W

Table B-2: Power Supply Options

Index

A

Analog VGA2

B

Backplane Options.....72

Backplane Replacement.....42

C

card bracket30

Certification

RoHS3

cooling fans.....7, 44

copper pillars27

CPU Card Replacement41

D

Disk Drive Replacement46

Drive Bracket25

Drive Installation25

E

External Overview

Front Panel6

Rear Panel7

Side Panel7

H

HDD LED6

I

Install the Backplane.....27

Install the CPU Card28

Install the PCI/ISA Expansion Card30

Installation Considerations.....16

Internal overview.....8

L

LCD Specifications

Contrast Ratio.....13

Number of Colors13

Pixel Pitch13

Resolution.....13

Size.....13

Typical White Luminance13

O

OSD

Backlight55

Color51

Language.....52

Main Display Features.....50

OSD Buttons.....48

OSD Configurations.....53

OSD Menu Structure49

Signal.....54

OSD Control.....47

OSD controller6

P

Packing List..... iv, 18

RPC-6106/6108 Rackmount LCD Workstation

PCI/ISA Expansion Card Replacement41

Physical Dimensions.....8, 9, 10

Power LED.....6

Power Supply Options72

Power switch.....6, 12

Pre-installation Preparation20

PSU Replacement43

R

Recommended IEI Backplanes and PSUs71

Reinstall the Drive Brackets.....26

Remove the Drive Bracket.....24

Remove the Top Cover23

Reset button6, 12

S

slot cover retention screw 29, 30

Specifications

 LCD Specifications13

 RPC-6106/6108 Specifications.....12

System Fan Replacement44

T

TFT LCD2

Top Cover.....34

Touch Panel Driver Configuration.....67

Touch Screen Driver58

TouchKit 59, 67

U

Unpacking17